

ABSTRACT OF THE DISCLOSURE

A head-up display system for an automotive vehicle, comprising a transparent plate. A liquid crystal display is provided for generating a display light of information, in which the display light has a plane of polarization inclined by an angle of about 45° relative to a vertical axis of an image plane of the liquid crystal display. A first optical rotation layer is disposed to a first surface of the transparent plate. The optical rotation layer is adapted to receive the display light from the liquid crystal display and to optically rotate the plane of polarization of the display light by an angle of about 90°. A second optical rotation layer is disposed between the image plane of the liquid crystal display and a second surface of the transparent plate. The optical rotation layer is adapted to optically rotate the plane of polarization of the display light from liquid crystal display by an angle of about 45° and to allow S-polarized light to outgo toward the transparent plate at Brewster's an. The S-polarized light is reflected on a side of the second surface of the transparent plate to be directed toward an eye of an operator.

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